

This listing of claims will replace the version of claims appended to the accompanying specification.

Listing of the claims

Claims 1-33 (Cancelled).

Claim 34 (New) In a method of constructing a new building, the improvement comprising applying a film to a structure of said building, wherein the film has a water vapor diffusion resistance (s_d -value) at a relative humidity of an atmosphere surrounding the vapor retarder in the region of 30% to 50% of 2 to 5 meters diffusion-equivalent air layer thickness, and, at a relative humidity in the region of 60% to 80% which is < 1 meter diffusion-equivalent air layer thickness.

Claim 35 (New) The method according to claim 34, which further comprises a carrier material attached to the film.

Claim 36 (New) The method according to claim 35, wherein the carrier material has a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

Claim 37 (New) The method according to claim 35, wherein the carrier material is selected from the group consisting of particle board, chip board, oriented strand board, plywood paneling, gypsum board, fiber reinforced gypsum board, fiber board, cement board, cementitious wood wool board, calcium silica board, fiber insulation batts, fiber insulation slabs, foam insulation slabs, wall paper, and cloth.

Claim 38 (New) The method according to claim 35, wherein the carrier material is a fiber-reinforced cellulose material.

Claim 39 (New) The method according to claim 34, further comprising at least two layers of a carrier material, wherein the film is sandwiched between two layers of carrier material, the two layers of carrier material having a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

Claim 40 (New) The method according to claim 34, wherein the film comprises polyamide.

Claim 41 (New) The method according to claim 40, wherein the polyamide is selected from the group consisting of polyamide 6, polyamide 4, and polyamide 3.

Claim 42 (New) The method according to claim 41, wherein the polyamide is polyamide 6.

Claim 43 (New) The method according to claim 34, wherein the film has a thickness of 10 μm to 2 mm.

Claim 44 (New) The method according to claim 34, wherein the film has a thickness of 20 μm to 100 μm .

Claim 45 (New) The method according to claim 34, wherein the film comprises a pattern.

Claim 46 (New) The method according to claim 47, wherein the film comprises a printed color pattern.

Claim 47 (New) The method according to claim 47, wherein the film is applied to a wall of said new building.

Claim 48 (New) The method according to claim 47, wherein the film is applied to a roof of said new building.

Claim 49 (New) The method according to claim 47, wherein the film is applied to a roof and a wall of said building.

Claim 50 (New) In a method of renovating a building, the improvement comprising applying a film to a structure of said building, wherein the film has a water vapor diffusion resistance (s_d -value) at a relative humidity of an atmosphere surrounding the vapor retarder in the region of 30% to 50% of 2 to 5 meters diffusion-equivalent air layer thickness, and, at a relative humidity in the region of 60% to 80% which is < 1 meter diffusion-equivalent air layer thickness.

Claim 51 (New) The method according to claim 50, which further comprises a carrier material attached to the film.

Claim 52 (New) The method according to claim 51, wherein the carrier material has a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

Claim 53 (New) The method according to claim 51, wherein the carrier material is selected from the group consisting of particle board, chip board, oriented strand board, plywood paneling, gypsum board, fiber reinforced gypsum board, fiber board, cement board, cementitious wood wool board, calcium silica board, fiber insulation batts, fiber insulation slabs, foam insulation slabs, wall paper, and cloth.

Claim 54 (New) The method according to claim 51, wherein the carrier material is a fiber-reinforced cellulose material.

Claim 55 (New) The method according to claim 50, further comprising at least two layers of a carrier material, wherein the film is sandwiched between two layers of carrier material, the two layers of carrier material having a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

Claim 56 (New) The method according to claim 50, wherein the film comprises polyamide.

Claim 57 (New) The method according to claim 56, wherein the polyamide is selected from the group consisting of polyamide 6, polyamide 4, and polyamide 3.

Claim 58 (New) The method according to claim 57, wherein the polyamide is polyamide 6.

Claim 59 (New) The method according to claim 50, wherein the film component has a thickness of 10 µm to 2 mm.

Claim 60 (New) The method according to claim 50, wherein the film component has a thickness of 20 µm to 100 µm.

Claim 61 (New) The method according to claim 50, wherein the film comprises a pattern.

Claim 62 (New) The method according to claim 50, wherein the film comprises a printed color pattern.

Claim 63 (New) The method according to claim 50, wherein the film is applied to a wall of said new building.

Claim 64 (New) The method according to claim 50, wherein the film is applied to a roof of said new building.

Claim 65 (New) The method according to claim 50, wherein the film is applied to a roof and a wall of said building.